

We claim:

1. A reamer for use in extracting juice from citrus comprising:
a plurality of primary ribs for contacting the flesh of the citrus;
5 wherein the primary ribs have at least two profiles.
2. The reamer of claim 1 wherein:
the primary ribs have an upper profile, and a lower profile.
- 10 3. The reamer of claim 2 wherein:
the upper profile has a larger longitudinal radius or sharper apex angle
than the lower profile.
4. The reamer of claim 2 wherein:
15 the profiles of the primary ribs are connected by a transitional section
blending the upper and lower profiles.
5. The reamer of claim 1 wherein:
the primary ribs are blade like.
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6. The reamer of claim 1 wherein:
the top of at least some of the primary ribs form spikes to hold the fruit
in place.
- 25 7. The reamer of claim 1 wherein:

the reamer includes secondary ribs located between and within the profile defined by the primary ribs.

8. The reamer of claim 1 wherein:

5 the reamer includes paddles near the base of the primary ribs for removing pulp.

9. A citrus press comprising:

a reamer;

10 a housing to support the reamer;

a motor to drive the reamer, said motor contained in the housing; and

a fruit dome carried by an actuating arm;

wherein the fruit dome has a trajectory determined by the actuating arm, the trajectory having a curved portion and a generally linear

15 portion that is generally coincident with an axis of rotation of the reamer.

10. The citrus press of claim 9 wherein:

20 the actuating arm co-operates with a micro switch lock-out to prevent early rotation of the juicing reamer.

11. The reamer of claim 9 wherein:

25 the reamer has an apex on which is formed a central spike which co-operates with an internal surface of the fruit dome to limit the gap between the reamer and the dome.

12. The citrus press of claim 11 wherein:
the fruit dome includes a profile on its inner surface that corresponds
with the profile of the reamer profile.

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13. The citrus press of claim 9 wherein:
the fruit dome is removable for washing.

14. The citrus press of claim 9 wherein:
10 the fruit dome includes a stub shaft for attaching the dome to a
corresponding aperture in the actuating arm.

15. The citrus press of claim 9 wherein:
the fruit dome includes one or more internal edges to grip the skin of
15 the fruit.

16. The citrus press of claim 9 wherein;
the juice collector includes a sealable spout to control the flow of juice
from the collector.

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17. A citrus press comprising:
a reamer;
a housing to support the reamer;
a motor to drive the reamer, said motor contained in the housing; and
25 a fruit dome carried by an actuating arm;

wherein the actuating arm has a four bar linkage hinge with at least one fixed pivot attached to the housing.

18. The citrus juicer of claim 17 wherein:

5 the actuating arm is a collapsible quadrilateral hinge.

19. The citrus juicer of claim 17 wherein:

the actuating arm co-operates with a micro switch lock-out to prevent early rotation of the juicing reamer.

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20. The reamer of claim 17 wherein:

the reamer has an apex on which is formed a central spike which co-operates with an internal surface of the fruit dome to limit the gap between the reamer and the dome.

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21. The citrus juicer of claim 17 wherein:

the fruit dome includes a profile on its inner surface that corresponds with the profile of the reamer profile.

20 22. The citrus juicer of claim 17 wherein:

the fruit dome is removable for washing.

23. The citrus juicer of claim 17 wherein:

the fruit dome includes a stub shaft for attaching the dome to a corresponding aperture in the actuating arm.

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24. The citrus juicer of claim 17 wherein:
the fruit dome includes one or more internal edges to grip the skin of
the fruit.

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25. The citrus juicer of claim 17 wherein:
the juice collector includes a sealable spout to control the flow of juice
from the collector.

- 10 26. A spout for limiting the flow of fluid from a container, comprising:
a spout that is hinged to the container;
the spout supporting an elastomeric plug;
an aperture in the container;
wherein the elastomeric plug fits into the aperture in the container to
15 stop the flow of fluid therethrough;
the plug having a portion that is larger than the aperture, that portion
preventing the plug from dislodging under the influence of gravity.

27. The spout of claim 26 wherein:
20 the portion is an enlarged head.